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| INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) PTO Form 1449 Page 1 of 2 | Attorney Docket No. 056258-5106 | Serial No. 10/530210 Unassigned |
| | Applicants Jonathan Mark HARDY et al. | |
| | Filing Date June 17, 2005 | Group Unassigned |
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| U.S. PATENT DOCUMENTS |
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| *Examiner Initial | Document Number | Date | Name | Class | Sub Class | Filing Date |
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| FOREIGN PATENT DOCUMENTS |
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| | Document Number | Date | Country | Class | Sub Class | <u>Translation</u> | |
|----|-----------------|--------------------|---------|-------|-----------|--------------------|----|
| | | | | | | YES | NO |
| JC | 62 212395 A2 | September 18, 1987 | Japan | | | abstract | |
| | | | | | | | |
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| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) |
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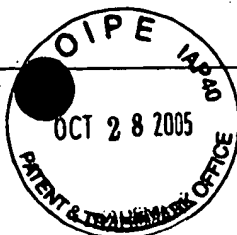
| | |
|----|--|
| JC | TAWARA, SHINICHIRO et al. "Phosphorodiamidous acid ester derivatives" XP002272471 Database accession no. 109:149797 CA |
| JC | HAMAMOTO S. et al.: "New approach to the synthesis of deoxyribonucleoside phosphoramidite derivatives" CHEMISTRY LETTERS., No. 8, 1986, pages 1401-1404, XP002272465 JP CHEMICAL SOCIETY OF JAPAN. TOKYO |
| JC | KRUCZYNSKI L.J. et al.: "Phenylfluorophosphoranes: axial-equatorial fluorine exchange in RC6H4PF3H and intermolecular exchange in the PhPF2(H) OMe-MeOH-base system" CANADIAN JOURNAL OF CHEMISTRY., vol. 68, no. 3, 1990, pages 488-491, XP002272466 CANADIAN RESEARCH COUNCIL. OTTAWA. |
| JC | HEINICKE J. et al.: "Synthese von o-Halogenphenoxy-, o-Halogenphenylthio- und o-Halogen-methylanilinoderivaten der IVb- und Vb-Elemente" JOURNAL FÜR PRAKTISCHE CHEMIE., vol. 325, no. 3, 1983, pages 511-516, XP0008028030 DEWILEY VCH, WEINHEIM. Page 511, process (A) and page 514 |
| JC | NIFANT'EV E.E. et al.: "New aspects of the chemistry of pyrrolides of tervalent phosphorus acids" RUSSIAN JOURNAL OF GENERAL CHEMISTRY., vol. 62, no. 7, December 20, 1992, pages 1201-1208, XP002272467 USCONSULTANTS BUREAU. |
| JC | KIBARDIN A.M. et al.: "Synthesis of ethyl bis (N-butyl-N-isobutenylamido) phosphite and reaction with alpha-chloroacetaldehydes" BULLETIN OF THE ACADEMY OF SCIENCES OF THE USSR. DIVISION OF CHEMICAL SCIENCE., vol. 31, No. 3, September 20, 1982, pages 625-627, XP002272468 |

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|---|------------------------------------|---------------------|---|
| INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) PTO Form 1449 page 2 of 2 | Attorney Docket No. 056258-5106 | | Serial No. 10/539210 <small>Unassigned</small> |
| | Applicants Paul McCORMAC | | |
| | Filing Date June 17, 2005 | Group Unassigned | |
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|----|--|
| JC | BURGADA R.: "Les reactions du carbonyle avec les aminophosphines X. Effect de substituant dans les reactions d'echange." BULLETIN DE LA SOCIETE CHIMIQUE DE FRANCE., no. 1, 1971, pages 136-143, XP002272469, FR SOCIETE FRANCAISE DE CHIME. PARIS PAGE 140, experimental part |
| JC | MITSUNOBU O. et al.: "Preparation of carboxylic esters and phosphoric esters by the activation of alcohols" BULLETIN OF THE CHEMICAL SOCIETY OF JAPAN., vol. 44, no.12, 1971, pages 3427-3430, XP002272470 JP JAPAN PUBLICATIONS TRADING CO. TOKYO. page 3430. |
| JC | WILK A et al: "The 4-oxopentyl group as a labile phosphate/thiophosphate protecting group for synthetic oligodeoxyribonucleotides" TETRAHEDRON LETTERS, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 42, no. 33, August 13, 2001 PAGES 5635-5639, XP004295829 |
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| Examiner | /Janet Coppins/ | Date Considered | 01/08/2007 |
| Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | | | |

FORM PTO-1449 (modified)
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**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**

Applicant: Jonathan Mark HARDY et al.

Appln. No.: 10/539,210

Filing Date: June 17, 2005

Date: October 28, 2005

Page 1 of 1

Examiner: unassigned Group Art Unit: 1614

U.S. PATENT DOCUMENTS

| Examiner's Initials* | Document Number | Date MM/YYYY | Name (Family Name of First Inventor) | Class | Sub Class | Filing Date (if appropriate) |
|-------------------------|--------------------|-----------------|---|-------|--------------|------------------------------------|
| | AR | | | | | |
| | BR | | | | | |
| | CR | | | | | |
| | DR | | | | | |
| | ER | | | | | |
| | FR | | | | | |
| | GR | | | | | |

FOREIGN PATENT DOCUMENTS

| | Document Number | Date MM/YYYY | Country | Inventor Name | English Abstract | | Translation Readily Available | |
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| | | | | | Enclosed | No | Enclose | No |
| | HR | | | | | | | |
| | IR | | | | | | | |
| | JR | | | | | | | |
| | KR | | | | | | | |
| | LR | | | | | | | |
| | MR | | | | | | | |
| | NR | | | | | | | |

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

| | | | | | | |
|----|----|--|---|--|--|--|
| JC | OR | Nielsen et al., "Thermal Instability of Some Alkyl Phosphorodiamidites", J. Chem. Research, Synop. (1986), pp. 26-27 | X | | | |
| JC | PR | Hamamoto et al., "2-(2-Pyridyl)ethyl group: new type protecting group in the synthesis of DNA via phosphoramidite intermediates", Nucleic Acids Research, Symp. Ser. No. 17:93-96, (1986), | X | | | |
| | QR | | | | | |
| | RR | | | | | |
| | SR | | | | | |
| | TR | | | | | |
| | UR | | | | | |

Examiner /Janet Coppins/ Date Considered: 01/08/2007

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